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SOURCE Showa 14-nendo Tokei Nenpo (1939 Statistical Yearbook), published  
by the South Manchuria Railway

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DATA ON RR OPERATIONS IN MANCHURIA  
AND NORTH KOREA FOR 1939

Summary: This report gives statistical data from the Showa 14-nendo Tokei Nenpo (1939 Statistical Yearbook), published by the South Manchuria Railway, concerning the transportation of freight by the railway lines in Manchuria and North Korea during the fiscal year 1939 (between April 1939 and March 1940).

The report is divided into four parts. Part I gives data on transportation of freight by South Manchuria Railway Lines and Government Lines by bureaus; Part II gives 1939 data compared with 1937 and 1938 data; Part III gives the amount of freight hauled during 1937, 1938, and 1939; Part IV gives the amount of freight hauled during 1939 by commodities.

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## 1. DATA ON RAILWAY BUREAUS IN MANCHURIA AND NORTH KOREA, 1939

CATEGORIES	MUKDEN BUREAU			GOVERNMENT LINES					
	SMR LINE	GOVT LINE	TOTAL	CHIN-CHOU BUREAU	KIRIN BUREAU	MU-TAN-CHIANG BUREAU	HARBIN BUREAU	CH'II-CH'II BUREAU	TOTAL
FREIGHT OPERATIONAL-KILOMETERS									
END OF 1939 (KM)	1,231.2	115.4	1,346.6	1,717.4	1,472.9	1,520.9	1,722.7	2,323.9	8,773.2
RATIO BY BUREAUS (%)	11.8	1.0	12.9	16.4	14.1	14.5	16.5	22.2	18.8
TOTAL KILOMETERS OPERATED DURING 1939 (KM)	445,605.0	21,264.6	466,869.6	628,568.4	516,133.2	517,064.8	600,715.8	850,547.4	3,134,314.2
DAILY AVERAGE FOR 1939 (KM)	1,217.5	58.1	1,275.6	1,717.4	1,410.2	1,412.8	1,641.3	2,323.9	8,563.7
FREIGHT TRAIN-KILOMETERS	11,677,720	191,764	11,869,484	4,103,033	3,507,905	4,149,219	5,011,114	3,502,321	20,465,356
AVERAGE DAILY FREIGHT TRAIN-KILOMETERS	31,906	525	32,430	11,210	9,584	11,337	13,692	9,569	55,916
AVERAGE FREIGHT TRAIN TRIPS PER DAY	26.2	9.0	25.4	6.5	6.3	8.0	8.3	4.1	6.5
TOTAL NO OF FREIGHT CAR-DAYS	--	--	--	--	--	--	--	--	7,742,753*
FREIGHT CAR-KILOMETERS (KM)									
LOADED CARS	330,140,996	3,192,996	333,333,992	73,128,255	66,614,351	69,243,568	114,154,438	97,928,903	424,262,511
EMPTY CARS	89,439,860	1,435,542	90,875,402	33,495,802	20,187,022	34,609,233	32,720,177	34,457,031	156,904,807
TOTAL	419,580,856	4,628,538	424,209,394	106,624,057	86,801,373	103,852,801	146,874,615	132,385,934	581,167,318
LOADED CAR RATIO (%)									
LOADED CARS	78.7	69.0	78.6	68.6	76.7	66.7	77.7	74.0	73.0
EMPTY CARS	21.3	31.0	21.4	31.4	23.3	33.3	22.3	26.0	27.0
AVERAGE DAILY DISTANCE PER FREIGHT CAR (KM)	--	--	--	--	--	--	--	--	134.6*

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<b>AVERAGE NO OF FREIGHT CARS IN TRANSIT PER DAY PER KILO- METER</b>	941.6	217.7	908.6	169.6	168.2	200.8	244.5	155.6	185.4
<b>AVERAGE NO OF FREIGHT CARS PER TRAIN</b>									
LOADED CARS	28.3	16.7	28.1	17.8	19.0	16.7	22.8	28.0	20.7
EMPTY CARS	7.6	7.4	7.6	8.2	5.7	8.3	6.5	9.8	7.7
TOTAL	35.9	24.1	35.7	26.0	24.7	25.0	29.3	37.8	28.4
<b>TONNAGE HAULED (MT)</b>									
LESS THAN CAR- LOAD LOTS	2,048,893.4	553,109.4	2,319,975.4	519,632.6	555,523.9	449,291.0	892,310.2	504,288.7	2,565,250.2
CARLOADS	29,989,304.9	7,384,783.8	31,704,046.9	6,916,703.8	7,971,364.1	7,715,687.5	11,782,942.4	6,442,488.5	34,485,350.7
TOTAL	32,038,198.3	7,937,893.2	34,024,022.3	7,436,336.4	8,526,888.0	8,165,278.5	12,675,252.6	6,946,777.2	37,050,640.9
<b>RATIO OF CARLOAD TO LESS THAN CAR- LOAD LOTS OF TON- NAGE HAULED (%)</b>									
LESS THAN CAR- LOAD LOTS	6.4	7.0	6.8	7.0	6.5	5.5	7.0	7.3	6.9
CARLOADS	93.6	93.0	93.2	93.0	93.5	94.5	93.0	92.7	93.1
<b>AVERAGE FREIGHT CAR- RIED PER DAY (MT)</b>									
LESS THAN CAR- LOAD LOTS	5,598.1	1,511.2	6,338.7	1,419.8	1,517.8	1,227.6	2,438.0	1,377.8	7,009.0
CARLOADS	81,938.1	20,177.0	86,623.1	18,893.1	21,779.7	21,081.9	32,193.8	17,602.4	94,222.3
TOTAL	87,536.2	21,688.2	92,961.8	20,317.9	23,297.5	22,309.5	34,631.8	18,980.3	101,231.3
<b>FREIGHT TON- KILOMETERS (MT-KM)</b>									
LESS THAN CAR- LOAD LOTS	650,388,095	4,899,220	655,287,315	120,511,412	101,424,728	89,067,644	206,158,766	135,016,902	667,073,372
CARLOADS	8,693,930,818	66,459,735	8,760,090,553	1,692,822,340	1,397,577,042	1,600,656,030	2,841,401,158	2,274,850,081	9,953,466,386
TOTAL	9,344,318,913	71,058,955	9,415,377,868	1,813,333,752	1,499,001,770	1,779,723,374	3,047,559,924	2,409,866,983	10,620,539,758

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RATIO OF CARLOADS  
TO LESS THAN CAR-  
LOAD LOTS PER  
FREIGHT TON-KM (%)

LESS THAN CAR- LOAD LOTS CARLOADS	7.0 93.0	7.0 93.0	7.0 93.0	6.6 93.4	6.8 93.2	5.6 94.4	6.8 93.2	5.6 94.4	5.3 94.7
AVERAGE HAULING DISTANCE PER TON OF FREIGHT									
LESS THAN CAR- LOAD LOTS (KM)	317.4	8.9	282.5	231.9	182.6	220.5	231.0	257.7	260.6
CARLOADS (KM)	285.9	9.0	276.3	244.7	175.3	217.8	241.1	353.1	288.0
AVERAGE OF ALL FREIGHT (KM)	291.7	9.0	276.7	243.8	175.8	217.9	240.4	346.9	286.6
AVERAGE DAILY TONNAGE PER OPERATIONAL - KILOMETER	20,970.0	3,341.7	20,167.0	2,884.9	2,904.3	3,441.8	5,073.2	2,833.3	3,388.5
AVERAGE TONNAGE PER TRAIN-KILOMETER	800.2	370.6	793.2	441.9	427.3	428.9	608.2	688.1	519.0
AVERAGE TONNAGE PER CAR-DAY (MT)	--	--	--	--	--	--	--	--	2,643*
AVERAGE TONNAGE PER LOADED CAR-KILOMETER (MT)	28.3	22.3	28.2	24.8	22.5	25.7	26.7	24.6	25.0
AVERAGE TONNAGE FOR ALL FREIGHT CAR- KILOMETER (MT)	22.3	15.4	22.2	17.0	17.3	17.1	20.7	18.2	18.3

\*INCLUDES DATA FOR NORTH KOREA

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II. 1939 DATA OF RAILWAY OPERATIONS IN MANCHURIA AND NORTH  
KOREA COMPARED WITH 1937 AND 1938

Categories	Govt Lines in Manchuria	North Korea	1939 Combined Total of SMR, North Korea, and Govt Lines in Manchuria	1938	1937
<u>Freight Operational- Kilometers</u>					
End of 1939 (km)	8,073.2	355.4	10,459.8	9,846.9	9,655.5
Ratio (%)	84.8	3.4	100.0	100.0	100.0
Total kilometers oper- ated during 1939	3,134,314.2	129,527.4	3,709,446.6	3,551,705.5	3,400,308.2
Daily average for 1939 (km)	8,563.7	353.9	10,135.1	9,730.7	9,316.0
Freight train- kilometers	20,465,356	1,525,177	33,668,253	25,513,169	19,183,450
Average daily freight train-kilometers	55,916	4,167	91,990	69,899	52,557
Average freight train trips per day	6.5	11.8	9.1	7.2	5.6
Total no of freight car-days	--	--	7,742,708	6,155,315	5,757,787
<u>Freight Car-Kilometers (km)</u>					
Loaded cars	424,262,511	19,952,627	774,356,134	612,813,066	489,274,807
Empty cars	156,904,807	7,169,737	253,514,404	205,218,400	166,350,660
Total	581,167,318	27,122,364	1,027,870,538	818,031,466	655,625,467
<u>Loaded Car Ratio (%)</u>					
Loaded cars	73.0	73.6	75.3	74.9	72.4
Empty cars	27.0	26.4	24.7	25.1	27.6

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Average daily distance per freight car (km)	--	--	132.8	132.9	117.3
Average no of freight cars in transit per day per kilometer	185.4	209.4	277.1	230.3	198.7
Average No of Freight Cars per Train					
Loaded cars	20.7	13.1	23.0	24.0	25.5
Empty cars	7.7	4.7	7.5	8.1	9.7
Total	28.4	17.8	30.5	32.1	35.2
Tonnage Hauled (MT)					
Less than carload lots	2,565,290.2	236,403.3	4,025,700.5	3,118,556.2	2,750,573.6
Carloads	34,485,350.7	3,720,797.8	54,935,175.3	44,735,958.5	37,371,921
Total	37,050,640.9	3,957,201.1	58,960,875.8	47,854,514.7	40,122,494.6
Ratio of Carload to Less Than Carload Lots in the Tonnage Hauled (%)					
Less than carload lots	6.9	6.0	6.6	6.5	6.9
Carloads	93.1	94.0	93.2	93.5	93.1
Average Freight Carried per Day (MT)					
Less than carloads	7,009.0	645.9	10,999.1	8,544.0	7,535.8
Carloads	94,222.3	10,166.1	150,096.1	122,564.3	102,388.9
Total	101,231.3	10,812.0	161,095.3	131,108.3	109,924.6
Freight Ton-Kilometer (MT-km)					
Less than carload lots	667,073,372	24,072,379	1,341,533,846	940,605,134	837,925,681
Carloads	9,953,466,386	473,400,758	19,120,797,962	15,318,942,739	12,065,545,655
Total	10,620,539,758	497,473,137	20,462,331,808	16,259,547,873	12,903,471,336

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Ratio of Carload to  
Less Than Carload Lots  
per Freight Ton-  
Kilometer (%)

Less than Carload lots Carloads	5.3 94.7	4.8 95.2	6.6 93.4	5.9 94.1	6.5 93.5
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Average Hauling Distance  
per Ton of Freight (km)

Less than carload lots Carloads	260.6 288.0	101.8 127.2	333.2 348.1	301.6 342.4	304.6 322.9
Average of all freight	286.6	125.7	347.0	339.8	321.6

Average Daily Tonnage  
per Operational-  
Kilometer (MT)

	3,388.5	3,840.7	5,516.3	4,578.0	3,794.6
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Average Tonnage per  
Train-Kilometer (MT)

	519.0	326.2	607.8	637.3	672.6
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Average Tonnage per  
Car-Day (MT)

	--	--	2,643	2,642	2,241
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Average Tonnage per Loaded  
Car-Kilometer (MT)

	25.0	24.9	26.4	26.5	26.4
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Average Tonnage for All  
Freight Car-Kilometer (MT)

	18.3	18.3	19.9	19.9	19.1
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III. TONNAGE HAULED BY RAIL, 1937-1939

Categories	1939	1936	1937
Tonnage hauled (MT)	58,960,876	47,854,515	40,122,495
Metric ton-kilometers	20,462,331,808	16,259,547,873	12,903,471,336

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## IV. MAJOR COMMODITIES TRANSPORTED BY RAIL IN MANCHURIA AND NORTH KOREA, 1939

<u>Commodities</u>	<u>Tonnage (MT)</u>	<u>Metric Ton-Kilometers</u>
Agricultural products	7,033,765.7	3,778,298,467
Livestock	241,038.8	126,025,591
Lumber	3,867,966.0	1,341,630,954
Ores	16,361,822.2	4,100,635,632
Marine products	803,215.2	322,530,230
Foodstuffs	1,081,241.1	466,734,116
Supplementary foods	275,088.6	95,631,271
Fertilizer	755,707.2	455,401,711
Textiles	156,260.9	56,123,710
Cement, bricks, etc.	1,650,804.5	497,670,787
Miscellaneous	14,526,158.8	6,147,275,033
Total	46,753,107.0	17,387,957,511
Tonnage of SMR goods hauled	12,207,768.8	3,074,374,297
Grand total	58,960,875.8	20,462,331,808

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